

PATENT

IN THE UNITED STATES PATENT OFFICE

Serial No.: Not yet assigned

Filed: Herewith

For: DEVICE AND METHOD FOR DETECTING  
THE PHASE AND AMPLITUDE OF  
ELECTROMAGNETIC WAVES

Inventor: Rudolf Schwarte

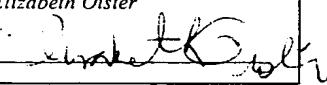
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DATE OF DEPOSIT November 13, 2000

I HEREBY CERTIFY THAT THIS PAPER IS  
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Elizabeth Oister

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**EXPRESS MAIL COVER LETTER**

Assistant Commissioner  
for Patents  
Washington, D.C. 20231

Dear Sir:

- (1) Specification (19 pages);
- (2) Claims (6 pages);
- (3) Abstract (1 page);
- (4) Verification of Translation (1 page);
- (5) Declaration and Power of Attorney (2 pages);
- (6) Preliminary Amendment;
- (7) Twelve sheets drawings in triplicate;
- (8) Small Entity Verification - Independent Inventor
- (9) Transmittal form (duplicate);

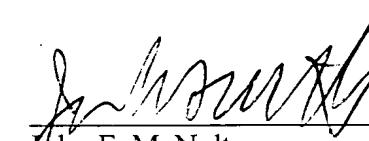
09/700439

528 Rec'd PCT/PTO 13 NOV 2000

- (10) Check in the amount of \$635.00 application filing fee;
- (11) German Search Report, dated November 12, 1998;
- (12) International Search Report, dated October 21, 1999;
- (13) International Preliminary Examination Report, dated October 11, 2000;
- (14) Published PCT application in German;
- (15) Express Mail cover letter, and
- (16) Paul & Paul postcard to be returned by the PTO.

THE COMMISSIONER IS HEREBY AUTHORIZED TO CHARGE ANY  
ADDITIONAL FEES ASSOCIATED WITH THIS COMMUNICATION, OR CREDIT ANY  
OVERPAYMENT, TO PAUL & PAUL DEPOSIT ACCOUNT NO. 16-0750, ORDER  
NO. 6177.

Respectfully submitted,



John F. McNulty  
Reg. No. 23,028  
Paul & Paul  
2900 Two Thousand Market St.  
Philadelphia, PA 19103  
(215) 568-4900

11-14-00

527 Rec'd PCT/PTO 13 NOV 2000

FORM PTO-100 (Modified)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

(REV. 1-98)

ATTORNEY'S DOCKET NUMBER

752-00

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
NOV 13 2000  
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

09/700439

INTERNATIONAL APPLICATION NO.  
PCT/DE99/01436INTERNATIONAL FILING DATE  
10 May 1999PRIORITY DATE CLAIMED  
18 May 1998

## TITLE OF INVENTION

## APPARATUS AND METHOD FOR DETECTING THE PHASE AND AMPLITUDE OF ELECTROMAGNETIC WAVES

## APPLICANT(S) FOR DO/EO/US

Rudolf Schwarte

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4.  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5.  A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a.  is transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  has been transmitted by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7.  A copy of the International Search Report (PCT/ISA/210).
8.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a.  are transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  have been transmitted by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
9.  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10.  An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
11.  A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12.  A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

## Items 13 to 20 below concern document(s) or information included:

13.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15.  A **FIRST** preliminary amendment.
16.  A **SECOND** or **SUBSEQUENT** preliminary amendment.
17.  A substitute specification.
18.  A change of power of attorney and/or address/letter.
19.  Certificate of Mailing by Express Mail
20.  Other items or information:

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.492)	INTERNATIONAL APPLICATION NO.	ATTORNEY'S DOCKET NUMBER
09/70043	PCT/DE99/01436	752-00

21. The following fees are submitted:

**BASIC NATIONAL FEE ( 37 CFR 1.492 (a) (1) - (5) ) :**

<input checked="" type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2) paid to USPTO and International Search Report not prepared by the EPO or JPO .....	\$970.00
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO .....	\$840.00
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....	\$690.00
<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) .....	\$670.00
<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) .....	\$96.00

**ENTER APPROPRIATE BASIC FEE AMOUNT =**

**\$1,000.00**

Surcharge of **\$130.00** for furnishing the oath or declaration later than  20  30 months from the earliest claimed priority date (37 CFR 1.492 (e)).

**\$0.00**

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total claims	- 20 =	0	x \$18.00	<b>\$0.00</b>
Independent claims	- 3 =	0	x \$80.00	<b>\$0.00</b>
Multiple Dependent Claims (check if applicable).			<input checked="" type="checkbox"/>	<b>\$270.00</b>

**TOTAL OF ABOVE CALCULATIONS =** **\$1,270.00**

Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable).	<input checked="" type="checkbox"/>	<b>\$635.00</b>
	<b>SUBTOTAL</b>	<b>\$635.00</b>

Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).	<input type="checkbox"/>	<b>\$0.00</b>
	<b>TOTAL NATIONAL FEE</b>	<b>\$635.00</b>

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).	<input type="checkbox"/>	<b>\$0.00</b>
	<b>TOTAL FEES ENCLOSED</b>	<b>\$635.00</b>

<b>Amount to be:</b>	<b>\$</b>
<b>refunded</b>	
<b>charged</b>	<b>\$</b>

A check in the amount of **\$635.00** to cover the above fees is enclosed.

Please charge my Deposit Account No. in the amount of to cover the above fees.  
A duplicate copy of this sheet is enclosed.

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **16-0750** A duplicate copy of this sheet is enclosed.

**NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.**

SEND ALL CORRESPONDENCE TO:

John F. McNulty, Esquire  
Paul & Paul  
2900 Two Thousand Market Street  
Philadelphia, PA 19103  
(215) 568-4900

  
SIGNATURE

John F. McNulty

NAME

23,028

REGISTRATION NUMBER

November 13, 2000

DATE